

24 November 1964

MEMORANDUM FOR : (See below)

SUBJECT : Chicago Title and Trust Approach to  
Index Mechanization

1. Attached is a report by [ ] DDP/SG,  
on the mechanization of the Chicago Title and Trust  
Company name index. The story has interesting im-  
plications in respect to grouping of name variants,  
tape searching of biographic file, and lease vs.  
purchase of computer equipment.

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2. This information (more details available  
in SG) is for the use of U. S. Government officials  
only. Should addressees desire additional information  
directly from Chicago Title and Trust Company, they  
are requested to coordinate the approach with this  
office.

[ ]  
Chief, DDP Systems Group

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Attachment - a/s

## Distribution:

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25X1A

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12. Attached for information is a copy of the typing manual utilized in preparation of searches. There is an obvious absence of reference to compound Surnames (GARCIA-LOPEZ) and Surnames with particles (De-Sota-y-Rodriguez). In this respect, the input is controlled to assure that hyphens are entered between each word.

13. Also attached for information purposes are statistics accumulated over the first 20 days of operation, a magazine article showing the C.T. and T. Co. Computer Center, example search results and record formats as handled by the various programs.

14. The time required to search the master index in this system can be expected to increase proportionately to the size of the index and the number of search requests. Through this system, one can readily see some of the problems encountered in a tape system as opposed to random access.

For example:

a. Note that the records and searches had to be sorted a total of six times, accounting for approximately four hours or one half of the total time. All of these sorts are 3 way merges.

b. Note, that the master index is maintained in "Key-Name" order on six tapes and that the seventh tape contains all new and correction entries until updating of the 6 master tapes is more convenient, i.e. on the weekend when no searching is done.

c. Note, that searching of the [ ] records now requires 45 minutes (excluding time required to obtain the Key Names, approximately 50 mins.) If the index were to expand to its projected size of 2.8 million, the time would increase to about 3 hours, for this one program (#2050.)

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d. Note, that searches can only be made on a batch basis. Searches which are not prepared before close of business today, will not be completed until the day after tomorrow. (Likewise, with searches entered today but rejected due to errors, etc.)

15. Last, but not least, is the lesson to be gained by the early purchase of the 1401 tape system which precludes expansion to larger capacity machines.

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## ROUTING AND RECORD SHEET

SUBJECT: (Optional)

FROM:

DDP/SG  
3-6-19

EXTENSION

NO.

DATE

25 November 1964

TO: (Officer designation, room number, and building)

DATE

OFFICER'S INITIALS

COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)

1. OCR

2 E 60 Hqs.

25 Nov

2.

Chief, BR

27 Nov 30 Nov

3.

A/Chief, SR

30 Nov/64 'Dec 64

4.

ASS

2 Dec. 2 Dec.

5.

SPA/CR

6.

DAD/CR

3 Dec

7.

AD/CR

3 Dec

8.

EXA/CR

9.

10.

11.

12.

13.

14.

15.

STATINTL  
An operating biographic  
computer system

RE: TT/V